

# Miriam Kadansky

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Proactive, results-oriented, **Program Manager** combining leadership, research, and technical skills with extensive experience in industrial research, product development, and academic partnering. Experience in large, worldwide organizations as well as small startups. Sought-after troubleshooter and expeditor with proven ability to identify and solve technical and organizational problems. Strong skills in recruitment, retention, mentoring, and people development.

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## Professional Experience

**Sun Microsystems Laboratories, Burlington, MA**

**1997 - 2009**

### **People, Project, and Program Manager (4 years)**

*Managed a staff of 13 and a \$2.5 million budget, reporting to the Sun Labs Director. Manager for Project Wonderland, an open source toolkit for building virtual worlds, and Aura, a universal recommendation architecture. Accomplishments include:*

- Led a team defining quantifiable annual goals for open source metrics across four Sun Labs projects, resulting in a 30% growth of the metric for FY09.
- Achieved department's patent filing goals, up to 130 per year, by working with legal department to file cases within a limited budget. Motivated researchers to keep inventing despite delays by providing more frequent status updates and self-service tools, and teaming with legal on an innovative university collaborative research agreement addressing patenting.
- Fostered technical collaboration by producing all aspects of Sun's Chief Technology Officer's semi-annual internal technical conferences for Sun's top 200 technical contributors, including running a refereed submission process.
- Salvaged a 100-node grid network from an abandoned initiative, after extensive cost-benefit analysis. Grid now supports several Sun Labs projects at a lower cost than other alternatives.
- Delivered improved internal web team performance despite resource cutbacks by setting priorities and empowering individual project leads. Reduced demand on the team by educating others about self-serve tools.

### **Research Manager (3 years)**

*Drove research in programming languages, synchronization, Java™ performance, and security usability. Accomplishments included:*

- Coached department through several difficult transitions, focusing on visibility and skill development. Established monthly company-wide Sun Labs newsletter highlighting project news. Produced career improvement workshops including: web2.0, interviewing, writing, Principal Investigator, and conference refereeing skills.
- Streamlined code release and open source licensing procedures to expedite feedback from customers, academics, and collaborative researchers, improving project quality.
- Transferred Java garbage collection (memory reclamation) project to product development, including two researchers. Resettled the rest of the team on other projects.
- Converted DARPA-funded programming language project to Sun Labs-funded research project, redefining objectives and addressing retention issues.

### **Principal Investigator, Network Scalability & Performance (5 years)**

*Led research and development in internet-scale reliable multicast, as well as deadlock-free routing, focusing on metrics for optimizing performance in high-speed switched networks.*

*Accomplishments include:*

- Transferred deadlock-free routing project's C code to product engineering team.
- Open-sourced the Java Reliable Multicast Service™, a Java toolkit for building reliable multicast applications, including a reliable multicast transport protocol
- Projects produced 6 published papers and 20 issued patents.

### **Xyplex, Inc., Littleton, MA (now MRV Communications)**

**1988 - 1997**

*Software engineer and manager contributing to successful public offering in 1991.*

### **Previous positions at Jupiter Technology, Interactive Data Corporation, and Distribution Management Systems.**

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### **Education**

Certificate in Project Management, University of Massachusetts, Lowell (*in progress*)

M.S., high honors, Simmons Graduate School of Information Science

B.A., cum laude, Mathematics, Harvard University

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### **Publications**

- *Deadlock-free Routing Based on Ordered Links*, Dah Ming Chiu, Miriam Kadansky, Radia Perlman, Guy Steele, John Reynders, and Murat Yuksel, IEEE Conference on Local Computer Networks 2002.
  - *A Congestion Control Algorithm for Tree-based Reliable Multicast Protocols*, Dah Ming Chiu, Miriam Kadansky, Joe Provino, Joseph Wesley, Hans-Peter Bischof and Haifeng Zhu, Sun Labs Technical Report TR-2001-97. Also published in IEEE Infocom 2002.
  - *Pruning Algorithms for Multicast Flow Control*, Dah Ming Chiu, Miriam Kadansky, Joe Provino, Joseph Wesley and Haifeng Zhu, Sun Labs Technical Report TR-2000-85. Also in Networked Group Communication 2000.
  - *Experiences in Programming a Traffic Shaper*, Dah Ming Chiu, Miriam Kadansky, Joe Provino and Joseph Wesley, Sun Microsystems Laboratories Technical Report TR-99-77. Also in the Fifth IEEE Symposium on Computers and Communications.
  - *The Java™ Reliable Multicast Service: A Reliable Multicast Library*, Steve Hanna, Miriam Kadansky and Phil Rosenzweig, Sun Labs Technical Report TR-98-68.
  - *TRAM: A Tree-based Reliable Multicast Protocol*, Dah Ming Chiu, Stephen Hurst, Miriam Kadansky and Joseph Wesley, Sun Labs Technical Report TR-98-66.
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### **U.S. Patents – 19 Issued**

- Deadlock-free Routing: 7,200,117 Method of optimizing network capacity and fault tolerance in deadlock-free routing, plus two others.
  - Reliable Multicast: 6,850,488 Method and apparatus for facilitating efficient flow control for multicast transmissions, plus fifteen others.
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**Outside Interests:** Soccer team captain & league organizer, licensed pilot, dog agility competitor.